Digitized by the Internet Archive
in 2010 with funding from
University of Toronto

http://www.archive.org/details/n09officialproceed22cana

ENGIN STORAGE

TF
1
C2
1923
no. 9
Engineering

R. NAYLOR, President. W. A. BOOTH, Secretary. P. P. REYNOLDS, Treasurer.

OFFICIAL PROCEEDINGS
Meeting of November, 1923

VOL. XXII.
No. 9

25c. per copy

VICTORIA UNIVERSITY LIBRARY

INCORPORATED OCTOBER 1918

Canadian Railway Club

MONTREAL

PARVA SUB INGENTI

CONTENTS:

Report of December Meeting

referring to the death of the

Right Honourable BARON SHAUGHNESSY,
F.R.C.I., K.C.V.O.
Chairman of the Canadian Pacific Railway.

AUG 19 1943

TUCO PRODUCTS CORPORATION.
Passenger Car Specialties—National Standard Roofing—Tuco Flexolithe Composition Flooring—Trap Doors "National" and "Universal"—Window Screens "Imperial" and "Universal"—Insulation "Tucork" and "Resisto."

LIBERTY MANUFACTURING COMPANY.
Arch Tube Cleaners.

STANDARD PAINT & VARNISH CO.
Paints and Varnishes.

NATHAN MANUFACTURING COMPANY.
Lubricators, Injectors, Top Checks, Side Checks and everything in brass for the locomotive.

BROWN & CO., INCORPORATED.
Stay Bolt and Engine Bolt Iron.

RIVET CUTTING GUN COMPANY.
Rivet Cutting Gun—Slag Gun.

ADAMS & WESTLAKE COMPANY.

HARRY VISSERING & COMPANY.
Locomotive Bell Ringers and Sanders.

SELLING AGENTS: **The Consolidated Equipment Company Limited**
260 ST. JAMES ST., MONTREAL.

BOSS
LOCK NUTS

EASIEST TO APPLY
LOWEST IN COST
BEST TO SPECIFY

BOSS LOCK NUTS are easily and quickly applied. They will not turn the bolts or in any way injure bolt threads, as the only resistance encountered in applying BOSS LOCK NUTS is in the final turn necessary to lock them.
This is in strong contrast with certain types of lock nuts which must be forced on, necessitating holding the bolt heads to prevent the bolts from turning.
Vibration and shock will not loosen BOSS LOCK NUTS. They can be removed and re-applied without appreciable loss of holding power and without injury to bolt threads. They save trouble, time, labor and bolts. It is the better part of wisdom to specify them.
Be sure to write it Right. Say—BOSS Lock Nuts

BOSS LOCK NUT COMPANY, OF CANADA, LIMITED.
260 ST. JAMES ST. MONTREAL.

MITCHELL
MONTREAL

RAILWAY PASSENGER CAR FITTINGS

NICKELINE WASHSTAND TOPS

NICKELINE WATER COOLERS

DUNER CAR HOPPERS

MANUFACTURERS OF METAL GOODS

BRASS FOUNDERS IRON FOUNDERS

Established 1851

THE ROBERT MITCHELL COMPANY, LIMITED.

MONTREAL, P. Q.

ALCO REVERSE GEARS

In successful operation in all classes of service for four years without change in design.

GIVE IT A TRIAL

MONTREAL LOCOMOTIVE WORKS, LTD.
DOMINION EXPRESS BUILDING, MONTREAL, CANADA

Duplex Stokers Distribute Coal Uniformly

Duplex Stokers handle all kinds of coal with best results, reduce clinkering and make fire cleaning an easy job. Engines fired by the Duplex will either shorten the trip time over the road, or will haul more cars per train in the same trip time. Hard schedules are helped along.

4,500 of Our Stokers on 76 Railroads

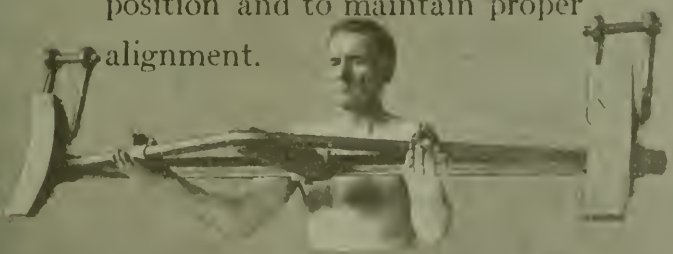
"The Harder You Pound Them The Better They Steam,"

—said a fireman of his Duplex Stoker-fired Engine.

Locomotive STOKER Company

Pittsburgh Chicago
New York Washington

The springs that constitute the Creco Brake Beam Support are as sensitive to the objectionable movements of the brake beam as human arms would be in the same position. For every such movement a corrective force is exerted by the springs—it is natural and instantaneous—a truly human tendency to correct faulty position and to maintain proper alignment.



Chicago Railway Equipment Co.
McCormick Building Chicago

REPRESENTED BY

CANADIAN APPLIANCE COMPANY, Ltd.

ROOM 705 - NEW BIRKS BUILDING,

Montreal, Quebec

STEEL

Castings:

Bolsters, Couplers,
Type "D", "Penn" Type,
Draft Arms,
Truck Side Frames,
Locomotive and Car,
Miscellaneous.

Forgings:

Car Axles,
Shafting,
Billets.

Rolled:

Universal Plate,
Sheared Plate,
Agricultural Shapes,
Sheets.

Dominion Foundries and Steel
LIMITED
HAMILTON - - ONTARIO.

LAMMERS & MAASE, Limited

Successors to MONTREAL.

SWEDISH STEEL & IMPORTING Co., Ltd.

RAILWAY AND MINING SUPPLIES.
SKF QUALITY CARBON TOOL STEEL.
SWEDISH WELDING WIRE.
SWEDISH IRON.
SWEDISH MUSIC WIRE.

Warehouses:

Seattle Chicago Montreal Vancouver San Francisco.

FOR SALE

Take No Chances, Specify

B.&W. WATER TUBE Boilers

BABCOCK & WILCOX, LIMITED

ST. HENRY, MONTREAL

ST. THOMAS BRONZE CO. Ltd.

ST. THOMAS, ONT.

BRASS CASTINGS

FOR THE WEARING PARTS OF LOCOMOTIVES

JOURNAL BEARINGS

West Disinfecting Co.
Manufacturers of

DISINFECTANTS---LIQUID SOAPS---PAPER TOWELS
AND SANITARY APPLIANCES.

301 Casgrain Street, Montreal, P.Q.
MADE IN CANADA

MADE IN CANADA

FACTORS THAT INCREASE
LOCOMOTIVE EFFECTIVENESS

FRANKLIN RAILWAY SUPPLY COMPANY
OF CANADA, LIMITED
Transportation Building, Montreal.

CANADIAN GOLD CAR HEATING
& LIGHTING COMPANY, LIMITED
MANUFACTURERS OF
CAR HEATING APPARATUS OF EVERY
DESCRIPTION
STEAM—VAPOR—COMBINATION—HOT WATER
ELECTRIC PRESSURE REGULATORS—VENTILATORS
THERMOSTATIC CONTROL FOR ALL SYSTEMS
346 ST. JAMES STREET. MONTREAL, CANADA.

Lower Your Material Handling Costs With

The TRACKLESS TRAIN.

Let us show you how.

TAYLOR & ARNOLD ENGINEERING COMPANY

LIMITED

100 ANN STREET, MONTREAL

West Disinfecting Co.

Manufacturers of

DISINFECTANTS---LIQUID SOAPS---PAPER TOWELS AND SANITARY APPLIANCES.

301 Casgrain Street, Montreal, P.Q.

MADE IN CANADA

LOCOMOTIVES WE HAVE MODERNIZED HAVE RENDERED IMPROVED SERVICE

A large number of locomotives have recently being rebuilt and modernized, increasing their efficiency and capacity. Where old locomotives are heavy enough to still do effective work and are in reasonably good condition, it is economical to rebuild them and the results are invariably satisfactory.

We have had a wide experience in doing work of this nature and have complete facilities for either rebuilding locomotives in our own shops, or manufacturing and forwarding the necessary material to do the work in railway shops.

The BALDWIN LOCOMOTIVE WORKS

PHILADELPHIA

WESTINGHOUSE AIR BRAKES

For Steam and Electric Railways

AMERICAN
AUTOMATIC SLACK ADJUSTERS

Air Compressors, Electric Locomotives and Electrical Apparatus of every description

BUILT FOR THE DOMINION BY

CANADIAN WESTINGHOUSE CO., Limited

Cenеral Office and Works: HAMILTON, ONT.

MONTREAL, TORONTO, HALIFAX, VANCOUVER WINNIPEG, CALGARY
OTTAWA (Ahearn & Saper, Ltd.) FORT WILLIAM

ADDRESS NEAREST OFFICE

"PYLE-NATIONAL"

The Pioneers in Manufacture of Locomotive Electric Headlights.

A COMPLETE LINE OF

Steam Turbo-Generators-500 Wat to 5 K. W.
Headlight Cases-Sheet & Cast Metal
Reflectors-Metal & Glass
Lamps for Rear of Tender and Lighting Accessories

THE YOUNG VALVE GEAR.

The Pyle-National Company.

1334 North Kostner Ave., Chicago Ills,
Canada The Holden Co., Ltd., Montreal,

West Disinfecting Co.

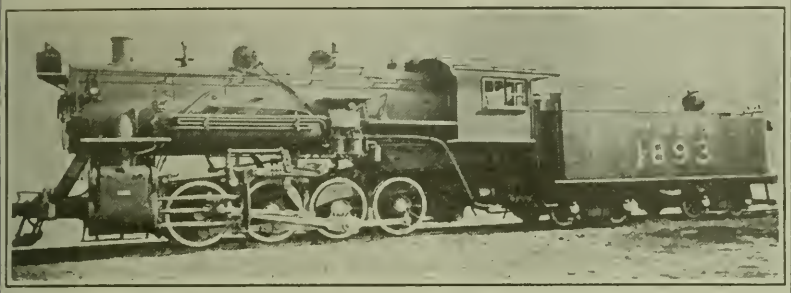
Manufacturers of

DISINFECTANTS---LIQUID SOAPS---PAPER TOWELS AND SANITARY APPLIANCES.

301 Casgrain Street, Montreal, P.Q.

MADE IN CANADA

TRANSFER LOCOMOTIVE
GRAND TRUNK RAILWAY SYSTEM



Total weight of engine, 243,000 pounds
Weight on drivers, 243,000 pounds
Diameter of drivers, 56 inches
Boiler pressure, 200 pounds
Cylinders, 26 x 30 inches
Maximum tractive power, 52.300 pounds

CANADIAN LOCOMOTIVE COMPANY, LTD.
KINGSTON, ONTARIO, CANADA.

West Disinfecting Co.
Manufacturers of

DISINFECTANTS---LIQUID SOAPS---PAPER TOWELS
AND SANITARY APPLIANCES.

301 Casgrain Street, Montreal, P.Q.
MADE IN CANADA

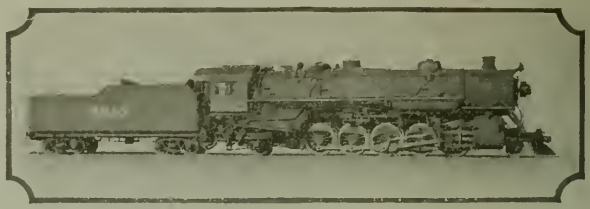
SESSIONS-STANDARD
REG. U. S. PATENT OFFICE

FRICTION DRAFT GEAR

STANDARD COUPLER COMPANY

NEW YORK
110 East 42nd Street

CHICAGO
People's Gas Building



LIMA

There's a fortune in suitable engines.

It takes a little more forethought before ordering.

But the results are multiplied by 30 years.

Go into the design question thoroughly.

Lima will co-operate.

Lima Locomotive Works, Incorporated, Lima, Ohio. Seventeen East Forty-second Street, New York City.

Adaptability of the Union
Rapidity of Assembling
Sureness of the Joint
Permanency of Connection
Economical Construction

Are results in the use of

Dart Union Pipe Couplings

O. M. Edwards Car Window Fixtures
O. M. Edwards Car Trap Doors
"Golden Glow" Locomotive Head Lights
Peacock Brakes
Shelby Seamless Mechanical Tubing
CANADIAN DISTRIBUTORS:
LYMAN TUBE & SUPPLY CO., Limited
MONTREAL TORONTO WINNIPEG VANCOUVER

"Imperial" Prismatic Glass
Pressed Prism Plate Glass Company
CHICAGO — OFFICES — NEW YORK

B. J. COGHLIN CO., Limited
Manufacturers of
Springs, Track Tools,
:: Railway Supplies ::
OFFICE AND WORKS:
Ontario Street East - Darling and Davidson Streets
MONTREAL

BABBITT METALS
For all purposes
SOLDERS TYPE METALS
SPECIAL ALLOYS
Made to specification
MOUNT ROYAL METAL COMPANY
145 Mill Street, Montreal.

What Has Superheating Done For Your Road?

You would not care to be without superheaters on your locomotives.

They have proved themselves the most effective single factor in increasing economy and capacity.

The superheaters you are familiar with have produced such results because they are based on the best engineering practice which we can obtain. This is followed by our own inspection and service work, in order to produce continuously the economies aimed at.

And they are MADE IN CANADA.

THE SUPERHEATER CO.

LIMITED

TRANSPORTATION BLDG., MONTREAL, QUE.

WORKS AT SHERBROOKE, QUE.

Designing Engineers and Manufacturers of Superheaters and Pipe Coils for all classes of service.

Feed Water Heaters for Locomotives.

Tie Plates

Angle Bars, Ordinary and Heat Treated

Railway Spikes

Track Bolts, Ordinary and Heat Treated

Steel and Iron Bars

THE STEEL COMPANY of CANADA, Limited

HAMILTON - - - - MONTREAL

FAIRBANKS-MORSE "SHEFFIELD" CARS

From the big powerful No. 40 with two cylinder four cycle engine, and friction drive, to the one man velocipede, Fairbanks-Morse "Sheffield" Motor Cars are in daily use for inspection in all parts of the country.

For many years "Sheffield" hand cars have been transporting men from place to place in record time with a minimum of effort.

Let us send you full information on the cars you are most interested in.

The Canadian Fairbanks-Morse Co., Limited

St. John, Quebec, Montreal, Ottawa, Toronto, Hamilton, Windsor, St. Catharines, Fort William, Winnipeg, Regina, Saskatoon, Calgary, Edmonton, Vancouver, Victoria.

WHY JOLIETTE STEEL CASTINGS ?

In the Locomotive and Car Shops they know what a clean and accurate Casting means in time saved.

Money can be saved on Steel Castings. An apparently low-priced casting often requires an excessive amount of machining, so that it is, in reality, a costly article. Accuracy to shape and uniform steel quality are the two features of Joliette Steel Castings which should be borne in mind when considering questions of price. Accuracy to shape and uniform steel quality mean that Joliette Steel Castings require a minimum of machining. They are economical castings for that reason. No one can afford to waste his machinist's time. In addition Joliette Castings have given the highest tests, a further guarantee of economy in use.

We manufacture Electric Steel Castings for Locomotive, Car and Maintenance work. All Castings true to pattern, well SAND BLASTED and Annealed.

Manganese steel castings for Dredges, Shovels & Frogs, etc.
Vanadium " " Valve Gear Parts.

ALL STEEL DRAFT GEARS.--EMERGENCY KNUCKLES.
DRAFT YOKES.---CAR REPLACERS.

JOLIETTE STEEL PRODUCTS LIMITED

705 McGILL BUILDING, MONTREAL, QUE. | **WORKS: JOLIETTE, QUE.** | **115 UNION TRUST BLGS. TORONTO, ONT.**

Locomotives Earn Every Dollar In Your Treasury

THE earnings of a locomotive depend on the amount of freight it can haul.

The amount of freight it can haul depends upon its power and its reliability.

Power and reliability depend on full steam pressure.

Full steam pressure depends on high sustained firebox temperature.

High sustained firebox temperature depends on proper combustion.

Proper combustion is secured by the Security Sectional Arch.

Therefore the Arch is a strong factor in locomotive earnings.

On the old, light power, as well as on the brand new locomotive fresh from the builder.

AMERICAN ARCH COMPANY, Inc.

Locomotive Combustion Engineers

17 East 42nd Street NEW YORK

McCormick Building CHICAGO

JOHNS-MANVILLE RAILROAD SUPPLIES

Asbestos Packings, Asbestos Protected Metal, Asbestos Roofings, Asbestos Shingles, Ebony & Transite Asbestos Wood, Expander Rings, for Air Brake Cylinders, High Temperature Cements, Industrial Flooring, Locomotive Lagging, Locomotive Packings, including Air Pump, Throttle, Valve Stem, Cab Cock, Gaskets, etc., Locomotive Spiral Pipe Covering, No. 82 Moulded Packing Cups and Expander Rings for Power Reverse Gear Cylinders, Orangeburg Fibre Conduit, Orangeburg Underfloor Duct System, Pipe Covering for all classes of service, Refrigerator Car Insulation, Steam and Radiator Traps, Steel Passenger Car Insulation, Transite Asbestos Smoke Jacks, Transite Corrugated Asbestos Roofing and Siding.

JOHNS-MANVILLE SERVICE COVERS THE CONTINENT

Canadian Johns-Manville Co., Limited.

PACKINGS

Anchor Fibrous,
Canuck Leather,
King Metallic.

CANUCK FRONT END PAINT.

CANUCK SUPPLY Co. LIMITED.
OFFICE and FACTORY : 371 AQUEDUCT ST., MONTREAL.
Branches : Toronto and Winnipeg.

VAPOR CAR HEATING CO.
OF CANADA, LIMITED

The Vapor System of Car Heating
MADE IN CANADA AT
65 Dalhousie Street, Montreal, Que.

F. A. PURDY, *Sales Representative.*
L. GERARD SMITH, *Asst.-Treas.*

West Disinfecting Co.
Manufacturers of

DISINFECTANTS---LIQUID SOAPS---PAPER TOWELS
AND SANITARY APPLIANCES.

301 Casgrain Street, Montreal, P.Q.
MADE IN CANADA

FOR SALE

Canadian Railway Club

INCORPORATED

Official Proceedings

Officers, 1923-4

President:

Mr. H. R. NAYLOR,
Asst. Works Manager, Angus Shops, C. P. R., Montreal.

First Vice-President:

Mr. C. E. BROOKS,
Chief of Motive Power, Can. Nat'l Rlys, Montreal.

Second Vice-President:

Mr. J. A. SHAW,
Elec. Engineer, Canadian Pacific Railway. Montreal, P. Q.

Executive Committee:

Mr. E. R. BATTLEY.
Supt. of Motive Power, Eastern Lines, Can. Nat'l Rlys. Montreal.

Mr. J. BURNS.
Works Manager, C. P. R. Angus Shops, Montreal, P. Q

Mr. W. F. CONNAL,
Mech. Engineer, C. N. R., Montreal

Mr. J. D. MUIR,
Asst. Works Manager, Angus Shops, Can. Pac. Rly., Montreal.

Mr. T. M. HYMAN,
Supt. Car Shops, C. N. R., Montreal.

Mr. G. WHITELEY,
Asst Supt. Motive Power, C. P. R., Montreal.

Audit Committee.

Mr. J. W. FONTAINE,
Chief Clerk, Aud of Stores & Mech. Accounts., C. P. R., Montreal.

Mr. A. McDONALD,
Asst. Supt., M. P. Shops, C. N. R., Montreal.

Mr. N. HOLLAND,
President, Holland Varnish Co., Montreal.

Secretary

Mr. W. A. BOOTH,
Chief Draughtsman, Mech. Dept. C. N. R., Montreal.

Treasurer:

Mr. P. P. Reynolds.
Chief Clerk to Chief of M. P. & R. S. C. P. R., Montreal. P. Q

Past Presidents:

Mr. E. A. WILLIAMS, deceased) 1903

Mr. T. McHATTIE,
12 Windsor Ave., Westmount, 1904

Mr. S. KING,
870 Queen's Ave.,
London, Ont., 1905-06

Mr. W. E. FOWLER,
941 Beacon St.,
Los Angeles, Cal., 1906-07

Mr. W. D. ROBB,
Vice-President, Can. Nat'l Rlys.
Montreal, P. Q. 1907-08

Mr. L. R. JOHNSON (deceased),
1908-09

Mr. H. H. VAUGHAN,
905 Guarantee Building, Beaver Hall Hill, Montreal, 1909-10

Mr. A. A. MAVER (deceased),
1910-11

Mr. A. A. GOODCHILD,
General Storekeeper, C.P.R.,
Montreal, 1911-12

Mr. J. COLEMAN,
Gen'l Supt. Car Equipt. Can. Nat'l Rlys. Toronto, Ont 1912-13

Mr. R. W. BURNETT.
Vice President Natl. Car Equipment Co., Chicago, Ill. 1913-14

Mr. W. McNAB.
Deceased. 1914-15

Mr. LEWIS C. ORD, England, 1915-16

Mr. R. M. HANNAFORD,
Asst. Chief Engineer, Montreal Tramways Co., Montreal, 1916-17

Mr G. E. SMART.
Chief of Car Equipment, Can Nat'l Rlys. Montreal 1917-18

Mr. C. W. VAN BUREN (deceased)
Mr. T. C. HUDSON.
Asst. Gen'l Supt. M. P. Can. Nat'l Rlys. Toronto, Ont. 1918-19

Mr. J. HENDRY.
43 Chesterfield Avenue,
Westmount, 1919-20

Mr. W. H. WINTERROWD.
Asst. to President, Lima Locomotive Works, New York 1920-21

Mr. A. CRUMPTON.
Valuation Engineer, Can. Nat'l Rlys.
Toronto, Ont. 1921-22

Mr. G. M. WILSON.
Supt. Motive Power Shops, Can. Nat'l Rlys. Montreal.
1922-23

Published every month, except June, July and August, by the Canadian Railway Club.
W. A. BOOTH, Secretary. 53 Rushbrooke Street, Montreal.

Vol. XXII. No. 9 **Montreal, Can., Dec., 11th, 1923** 25c. per copy

PROCEEDINGS OF THE CANADIAN RAILWAY CLUB

Windsor Hotel, Montreal,

December 11th, 1923

Chairman (Mr. H. R. Naylor.)

Gentlemen, will you kindly sign the attendance cards, and pass them to the centre aisle.

We should now have the reading of the Minutes of our last monthly meeting, but as they have been printed and mailed to the members, we will dispense with that to-night.

The next order of business will be the reading of the list of new members by the Secretary.

Secretary (Mr. W. A. Booth.)

Gentlemen, the following applications have been received since our last meeting:

Doutre, R. Marker Off, Canadian Pacific Railway, Montreal.

Foreman, W. E. Sales Manager, Rly & Power Eng. Corpora tion, Toronto.

Loudon, E. W. Rly & Industrial Supplies, Ont.

Odell, G. E. Clerk, Quebec Central Railway, Sherbrooke, P. Q.

Ouellette, V. Can Pac. Railway, Montreal. (Marker Off).

Chairman:

Gentlemen, a motion will now be in order as to the list just read.

Mr. J. Powell:

I move that the applications be accepted and dealt with in the usual manner. (Seconded by Mr. T. McHattie) and carried.

MEMBERS PRESENT

Naylor, H. R.
Allard, J.
Bridger, A. J.
Brown, H. H.
Brown, L.
Bryson, W.
Burns. J.
Carter, J. W.
Caumartin, J. W.
Coleman, J. W.
Coleman, M. T.
Cote, C.
Crawford, R.
Crockett, W. B.
Dohm, J. T.
Dow, A. W.
Desparois, D.
Devaney, J. L.
Fairchild, R. H.
Ferguson, B. H.
Fielding, W. G.
Fierro, H. M.
Gardner, K. V.
Garth, D. J.
Gougen, J.
Hansen, L. J.
Holland, F. E.
Hopperton, L.
Horwood, H. E.
Hudson, T. C.
Inns, G. A.
Jameison, C. S.
Jefferies, G
Langlois, W. S.
Langston, J. W.
Masse, O.
Mayes, R. S.
Milnes, D.
Mission, R. C.
Mullaly, M. J.
Mynard, T.
McHattie, T.
Palmer, E. B.
Patterson, W. R.
Payne, H.
Perrett, C. F.
Peverly, R. D.
Phillips, F.
Playfair, J.
Powell, J.
Prendergast, J.
Primeau, J. L.
Prouse, W.
Racicot, N.
Richardson, S.
Robb, G. W.
Ross, J. D.
Runciman, A.
Sandall, A.
Sauve, G.
Scourts, J.
Seccombe, A. G.
Serchuck, H. W.
Shaw, J. A.
Sheridan, W. P.
Sleigh, T.
Starkey, J. B.
Symmes, H. H.
Taylor, S. G.
Thorp, H. W.
Tinkler, J. E.
Viberg, E. R.
Walker, C. W.
Warner, G. E.
Webb, W. C. H.
Williams, S. F.
Wilson, G. M.
Winslow, K. M.
Booth, W. A.
and many others not registered.

Chairman:

I would now like to say a few words in regard to our Annual Banquet.

Since our last gathering your Banquet Committee at a recent meeting decided to hold the Banquet on January 26th, this being the last Saturday of that month. It is not the intention to have many speakers on this occasion, and we have promise of an excellent entertainment. Each year we look forward to this event, providing, as it does, an excellent opportunity for a re-union, in which many of our out-of-town members participate. The tickets can be had from Mr. Booth this evening, and I trust that everyone will endeavor to make this year's Banquet the most successful in the annals of the Club.

We were to have listened to-night to a paper kindly prepared by Mr. R. L. Laprairie, Inspector of Railway Mail Service, dealing with "Handling of Mail by Railways," but circumstances have intervened which compel us to alter our

plans. I refer to the death of Lord Shaughnessy. Mr. Laprairie, unacquainted with our intentions, came fully prepared to read his paper, telling of the workings of the Railway Mail Service, but as an expression of respect for the eminent countryman of ours, I think we should adjourn this meeting and defer the subject to one of our future meetings, to which Mr. Laprairie has very kindly consented.

In the death of that great railroader, Lord Shaughnessy, we, as members of this Railway Club, representing all branches of Railway Service, feel the loss very deeply. It can be truly said of his name that it was a household term coupled with the tremendous undertakings of the Canadian Pacific Railway. It is only recently that we also learned with regret of the death of another eminent railroad builder, Sir William Mackenzie, whose name will ever be linked with the Railways of the vast Western Provinces of this country. Lord Shaughnessy, as you know, was one of the pioneer Railroaders of Canada, and was responsible for the great expansion of the Canadian Pacific Railway as we know it to-day. As a railroader his name stood out pre-eminently above all others in this country. His counsel was not only sought on many railroad problems, but, owing to his wide experience, his advice was also sought in many other directions. He was interested in matters pertaining to our City government and that of the Province in general, and we can vividly recall the magnitude of his undertakings during the recent World War. Gentlemen, a man with these gifts is more than a railroader, he is a citizen of whom we are proud to acknowledge a Canadian.

Gentlemen, it is suggested as a token of our esteem for the late Lord Shaughnessy that this meeting be adjourned, and I would be glad to accept a motion to that effect.

Mr. E. R. Viberg:

Mr. Chairman, I desire to make a motion that this meeting be deferred in respect to the late Lord Shaughnessy, and also that the Secretary forward a letter to the family expressing our sympathy.

Mr. James Powell:

I will second that motion.

Chairman:

It has been proposed and seconded that this meeting be adjourned out of respect to the late Lord Shaughnessy, and that a letter expressing our sympathy be forwarded to his family. (Carried by standing vote.)

(Copy of letter forwarded and reply received incorporated herewith.)

Chairman:

At our January meeting we are to have a paper, prepared by Mr. J. Partington, Estimating Engineer, American Locomotive Co., a gentleman whom many of us have previously met in regard to Locomotive matters. His paper is entitled: "Some Recent Notable Locomotives." I can assure you that there is a great paper in store for us that evening. The meeting is now adjourned.

THE RT. HON. BARON SHAUGHNESSY. F.R.C.I., K.C.V.O.

CANADIAN RAILWAY CLUB

OFFICE OF THE SECRETARY

53 Rushbrooke St., Montreal.

December 12th 1923,

Lady Shaughnessy,
905 Dorchester St., West,
Montreal, P.Q.

Dear Lady Shaughnessy; —

The members of the Canadian Railway Club wish to express their deep sense of the great loss the Empire and especially the railway world have sustained in the demise of the Right Honorable Baron Shaughnessy.

His sterling qualities of heart and character had not only borne him to the foremost rank of the leaders in the transportation business the world over, but his vast experience of affairs and men had likewise marked him as one whose counsel was eagerly sought by cabinets and administrative bodies.

Adorned with the highest honors in the gift of the Sovereign, and ever enjoying the unbounden confidence and respect of his fellows, he withal retained that geniality which endeared him to all who were privileged to serve under or come into contact with him.

His memory will ever be a beacon which will lighten the path of rectitude and duty, and one of the glorious heritages of our country.

The members of the Club beg to convey to you and yours their sentiments of heartfelt sympathy on the occasion of your sad bereavement.

Respectfully yours,

W. A. BOOTH,
Secretary.

659 MOUNTAIN STREET,
MONTREAL.

17th December, 1923.

Dear Sir,

On behalf of my mother and the members of our family please convey to the members of the Canadian Railway Club our profound thanks for their kind resolution of sympathy with us in our bereavement.

During my father's lifetime the welfare of those who with him contributed to the welfare and prosperity of the great transportation systems of Canada was ever in his thoughts, and I am sure it would be most pleasant to him to know that his efforts in that direction met with such appreciation.

Yours very truly,
SHAUGHNESSY.

W. A. Booth, Esq.,
Secretary, Canadian Railway Club,
53 Rushbrooke Street,
Montreal.

FROM THE SECRETARY'S MEMORANDUM

Ours is the only Railway Club in Canada

* * * * *

It's a Great Investment to belong to such a Club.

* * * * *

In your particular line it surely broadens your scope and without doubt in other lines.

* * * * *

At our meetings (always on the 2nd Tuesday) you meet regular fellows and gentlemen all, and then some new acquaintances.

* * * * *

We are proud of our Executive.

* * * * *

Our Banquets and Smokers are generally without compare and known by many of our out-of-town members.

* * * * *

The Get-together and Luncheon after each meeting is thoroughly enjoyed.

* * * * *

Membership of Club consists of persons interested in any department of Railway Service or kindred interest.

* * * * *

And all for the sum of $2.00 *per annum.*

* * * * *

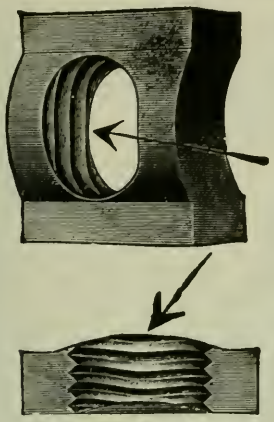
Mention these few facts to your friends and induce them to become one of our number.

* * * * *

OURS IS A FINE CLUB, OURS IS—

Application blanks always on hand

THANK YOU



This cut shows an exaggerated curve in thread pitch.

'Grip Nuts Lock'

Simplicity, efficiency and economy are three reasons why GRIP NUTS lead the field

Easy to apply, absolute in locking, simple to remove

For Particulars, Write

Canada Grip Nut Company, Ltd.

MONTREAL, Que.

West Disinfecting Co.

Manufacturers of

DISINFECTANTS---LIQUID SOAPS---PAPER TOWELS AND SANITARY APPLIANCES.

301 Casgrain Street, Montreal, P.Q.

MADE IN CANADA

En-ar-co SCIENTIFIC REFINING

ECONOMICAL LUBRICATION

CANADIAN OIL COMPANIES, Limited.

Canada's Oldest and Largest Independent Refiners of Gasoline and Lubricants.

Head Office, Toronto, Ontario. Refineries, Petrolia, Ontario

Big Jobs

HUNDREDS of repair jobs that formerly kept rolling stock idle for weeks, and even months, are now speedily, economically and permanently effected by the oxy-acetylene process.

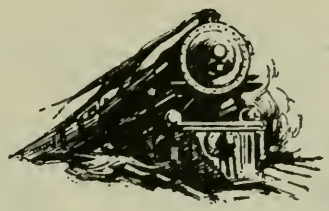
Dominion Oxygene Service contributes largely to the facility by which these jobs are completed. A service that places an unlimited supply of Dominion Oxygen and Prest-O-Lite Dissolved Acetylen of uniformly high quality, in safe, easily-handled cylinders with leak-proof val ves, in the shops where and when it is needed.

We would appreciate an opportunity of quoting prices and telling you about our facilities for giving unusually prompt service.

DOMINION OXYGEN COMPANY, Limited

Operating the Welding and Cutting Gas Division of
PREST-O-LITE COMPANY OF CANADA, LIMITED
GENERAL OFFICES: 80 Adelaide St. East, TORONTO

Hamilton Merriton Montreal Oshawa Quebec Shawinigan Falls
Toronto Welland Windsor Winnipeg



TENNESSEE CHARCOAL BLOOM STAYBOLT IRON

Manufactured by

EWALD IRON COMPANY

¶ It is the very finest quality of wrought iron that can be made.

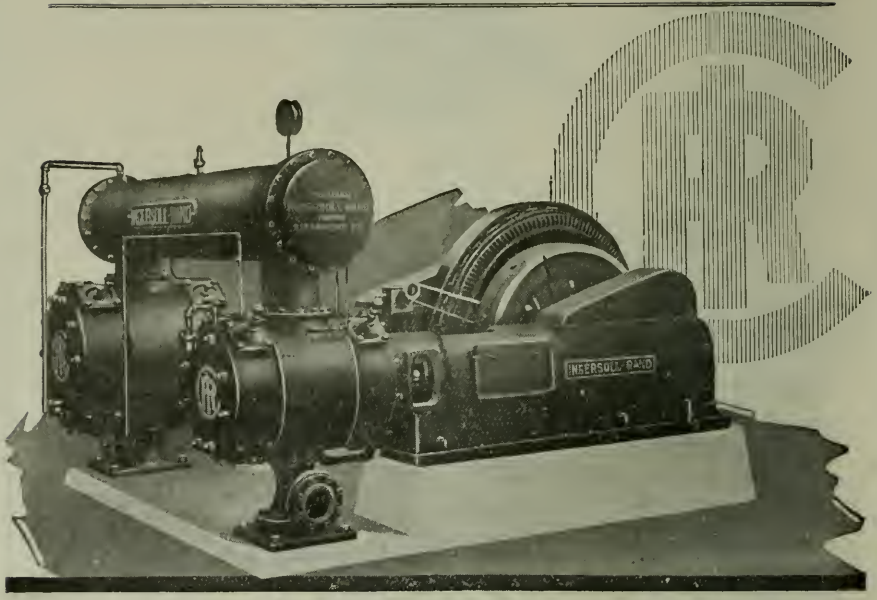
¶ It is soft and ductile, but very tough.

¶ Its wonderful performance in actual service for two generations has proven that it is the ideal iron for staybolts.

¶ We welcome a service test in comparison with any other iron.

CANADIAN APPLIANCE CO., LTD.
AGENTS

10 CATHCART STREET
MONTREAL CANADA



A Mark of Distinguished Service

WHEN buying a Compressor you are chiefly interested in what it will do, and the best guarantee of efficient and reliable performance is the reputation of the builder standing behind it.

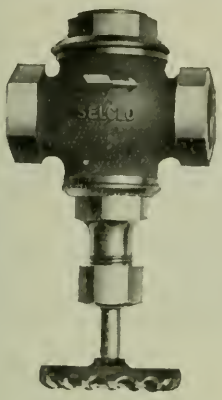
The name "Ingersoll-Rand" on an Air Compressor means that fifty years of experience has been built into the machine. It also represents a compressor of advanced design which will deliver your air for the least cost per cubic foot for power input, repair and attendance charges.

Our nearest branch will gladly help you
select a type to suit your needs.

CANADIAN INGERSOLL-RAND Company, Limited

SYDNEY SHERBROOKE MONTREAL TORONTO COBALT
WINNIPEG NELSON VANCOUVER

Ingersoll-Rand



For Round House Blower Lines

SELCO VALVES

Designed for hard service.

Full data and sample for test will be furnished on request to responsible parties.

Let us tell you where these valves are making good.

JENKINS BROS., Limited

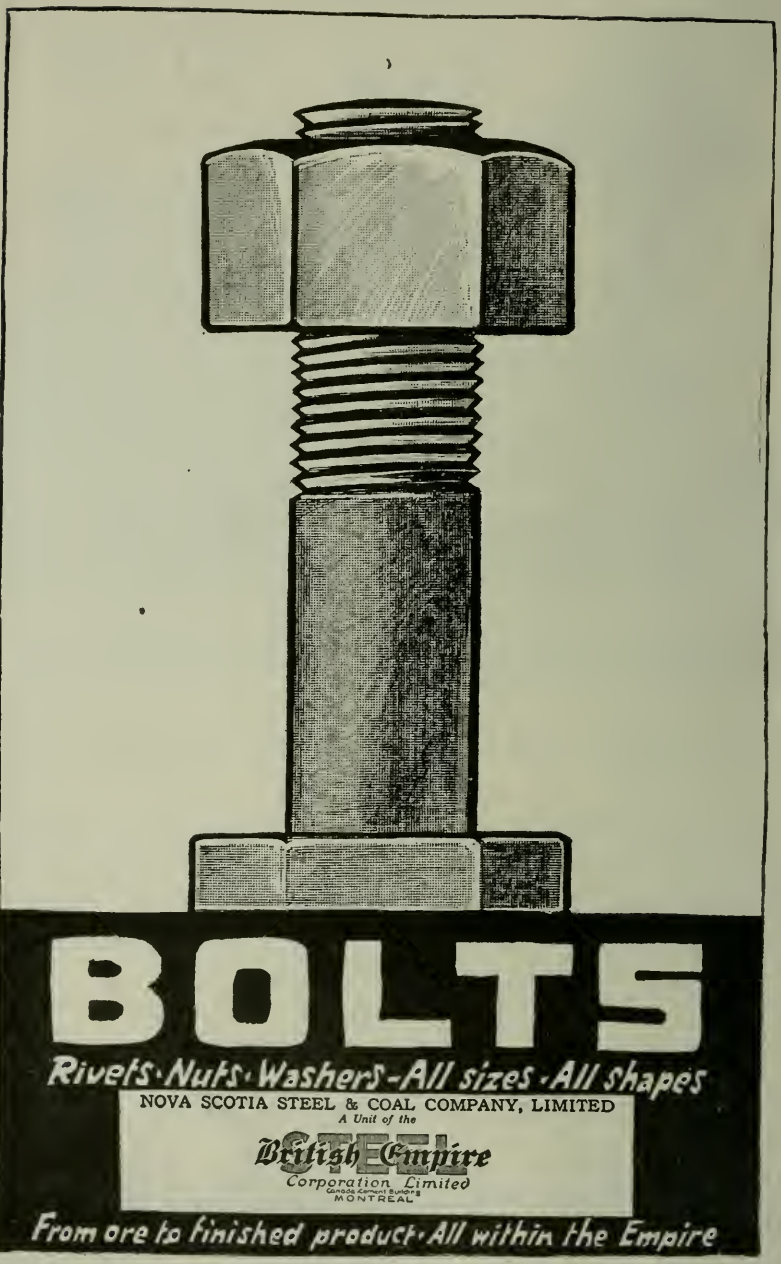
Head Office and Works: 103 St. Remi St., Montreal.
Sales Offices: Toronto, Vancouver.
European Branch: London, W. C. 2 Eng.
Factories: Montreal, Bridgeport, Elizabeth.

Always marked with the "Diamond"

Jenkins Valves

SINCE 1864

FOR SALE


BOLTS
Rivets · Nuts · Washers - All sizes · All shapes
NOVA SCOTIA STEEL & COAL COMPANY, LIMITED
A Unit of the
British Empire
STEEL
Corporation Limited
MONTREAL
From ore to finished product · All within the Empire

HANCOCK LOCO HOSE STRAINER
(Patented)

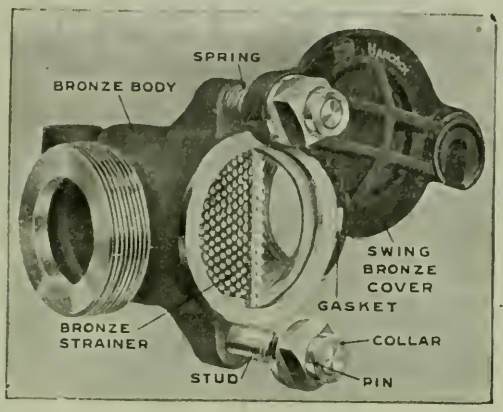


Fig. 3551

The Locomotive Hose Strainer shown in the cut consists essentially of a perforated plate of ample area, mounted in grooves in the body. The opening through which the screen is introduced is closed by a cover, making a water tight fit.

The cover has a rubber gasket set into its inner side which engages a seat on the body to which the cover is secured by stud bolts. The cover revolves on one bolt, on which it is spring mounted, and is held securely in place by the second bolt and nut, when closed.

This strainer can be used either right or left hand, with the inlet end, blank or threaded to fit hose couplings in use, and with the suction or feed pipe end, blank or fitted for iron or copper pipe.

TRADE MARK WORLD McAVITY'S GUARANTEE

J. McAvity & Sons, Ltd.
Valves Fittings & Supplies
GOODS GUARANTEED BY CENTURY'S GOOD
ALMOST A CENTURY'S EXPERIENCE 1834
St. John, N.B. Canada.

CORD and FABRIC

TIRES

Are Master
Mileage Makers
For all Cars.

ELVIN MECHANICAL STOKERS

INCREASE LOCOMOTIVE RATINGS
DECREASE FUEL CONSUMPTION
SHOW LOWEST MAINTENANCE COST.

— — MADE IN CANADA. — —

ELVIN MECHANICAL STOKER COMPANY

50 CHURCH STREET, - - - - NEW YORK.

West Disinfecting Co.

Manufacturers of

DISINFECTANTS---LIQUID SOAPS---PAPER TOWELS
AND SANITARY APPLIANCES.

301 Casgrain Street, Montreal, P.Q.

MADE IN CANADA

THE BIRD-ARCHER COMPANY

McGill Building, Montreal
Factory, Cobourg, Ont.

CHEMICALS FOR THE LOCOMOTIVE

POLARIZED—

ANTI-SCALE,
ANTI-FOAMING,
ANTI-LEAK
TREATMENTS

HAVE GIVEN SATISFACTION FOR YEARS

CORROSION

Where pitting or corrosion takes place in boilers there is present one or more preventable causes.

Chief among these causes are;

GALVANIC ACTION
and
ACID ACTION.

Galvanic action is the continuous dislocation of particles of metal from tubes or sheets by minute electric currents.

Acid action is the oxidization of the metal by chemical process, usually under scale.

Either or both of these actions can be immediately interrupted by using

POLARIZED.

Canada Iron Foundries, Limited

MANUFACTURERS OF

CAR WHEELS

CAST IRON PIPE

CASTINGS OF ALL KINDS

WORKS AT
Three Rivers, P.Q.
Fort William, Ont.
St. Thomas, Ont.
Hamilton, Ont.

Head Office:
MARK FISHER BUILDING
MONTREAL

West Disinfecting Co.

Manufacturers of

Disinfectants,
Liquid Soaps,
Paper Towels and
Sanitary Appliances.

301 Casgrain Street,
Montreal, P.Q.

MADE IN CANADA

"HISCO" PRODUCTS

Include Car Castings and Locomotive Parts of every description

DRIVING WHEELS
ENGINE FRAMES, BUMPERS
CENTRE PLATES, Etc.

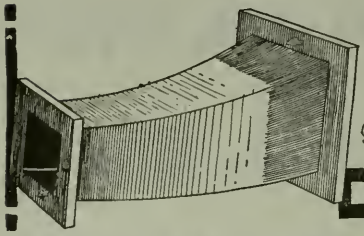
THE HOME OF "HISCO" PRODUCTS

The Hull Iron & Steel Foundries
LIMITED

Manufacturers of

CHROME, CHROME NICKEL, MANGANESE
AND MILD STEEL CASTINGS

HULL - - - - CANADA



STEEL CASTINGS

Acid Electric Process up to 15 tons

The Thos. Davidson Mfg. Co. Limited

DAVIDSON

HEAD OFFICE
187 Delisle St.
Montreal
Phone Victoria 1492

"INDUSTRIAL WORKS" Pile Drivers & Cranes
"MARION" Steam Shovels & Ditchers
"JORDAN" R. R. Spreaders

CANADIAN AGENTS

F. H. Hopkins & Co., Limited

Branch: Toronto. **Head Office : Montreal.**

NOVO SUPERIOR

HIGH SPEED STEEL

J. & C. WARRANTED CAST STEEL
TOOL STEEL FOR EVERY PURPOSE

SOLE AGENTS FOR CANADA

Pilot Steel & Tool Co., Limited

332 St. James Street - - Montreal

F. E. REJALL, *Vice-President and Manager.*

Telephone—Main 2354

Buffalo Brake Beam Company

Manufacturers of

Brake Beams for all Classes of Cars, Locomotives and Electric Equipment

Works ; BUFFALO, N. Y. & HAMILTON, CNT.

NEW YORK
32 NASSAU ST.

OFFICES :
ST. LOUIS
SYNDICATE TRUST BLDG..

MONTREAL
10 ST. ANTOINE ST.

"MORRISON"

Pressure Gauges
Injectors & Ejectors
Pressure Reducing Valves
Steam Specialties

THE JAMES MORRISON BRASS MFG. CO. LIMITED

93-97 ADELAIDE STREET WEST TORONTO

The Hanlon Locomotive Sander

ALWAYS RELIABLE
INEXPENSIVE TO MAINTAIN

The Hanlon Bulls Eye Water Glass

GUARDS AND SCREENS UNNECESSARY
ABSOLUTELY SAFE, NO DANGER OF ACCIDENTS WITH THIS GLASS

HANLON LOCOMOTIVE SANDER CO. **Winchester, Mass.**

Canadian Representative:
B. J. COGHLIN Co., Ltd. Montreal.

HUNT-SPILLER GUN IRON

FOR

Locomotive Castings

ELIMINATES ENGINE HOUSE REPAIRS

MADE ONLY BY

HUNT-SPILLER MFG. CORPORATION

W. B. LEACH, President and General Manager.
J. G. PLATT, Vice President and Sales Manager.

OFFICE AND WORKS :
383 Dorchester Avenue,
So. BOSTON, MASS.

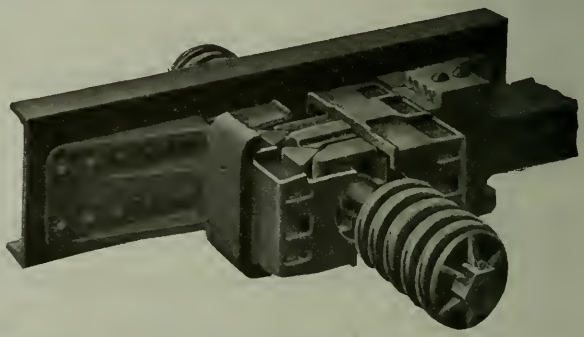
Canadian Representative :
CANUCK SUPPLY COMPANY, LIMITED,
371 Aqueduct St., Montreal P.Q.

WEBB. G. KRAUSER

RAILWAY SUPPLIES

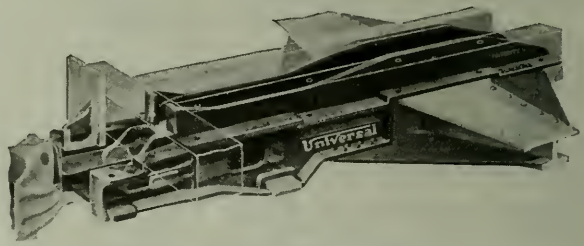
MADE IN CANADA

Cardwell Friction Draft Gear



Universal ATTACHMENTS

REENFORCING DRAFT ARMS



CAST STEEL YOKES
TANDEM SPRING DRAFT RIGGING
TWIN SPRING DRAFT RIGGING
DRAFT LUGS or PLATES
FRICTIONLESS SIDE BEARINGS.

Room 1023 Transportation Building - MONTREAL

P. & W.

SMALL TOOLS

Taps
Dies
Cutters
Reamers
Drills
Guages

QUALITY AND ACCURACY GUARANTEED

Pratt & Whitney Co. of Canada Ltd.

DUNDAS, ONT.

HALIFAX MONTREAL TORONTO WALKERVILLE WINNIPEG VANCOUVER

PEDLAR'S "PERFECT" TONCAN METAL CULVERTS

STRONGEST and most durable, the ideal culvert for permanent roadbeds. Made in standard diameters 8 to 84 inches lengths up to 40 feet, special coupling bands for longer lengths.

PEDLAR'S "PERFECT" STEELCRETE

the steel reinforcing for all forms of concrete slab construction, approved and recommended by the leading engineers.

WRITE FOR CATALOGUES

THE PEDLAR PEOPLE LIMITED

(Established 1861).

ExecutiveOffices : Oshawa, Ont.
Factories : Oshawa, Ont. and Montreal, Que.
Branches : Montreal, Quebec, Ottawa, Toronto, Hamilton, Winnipeg, Calgary, Vancouver.

CANADIAN BRONZE, LIMITED

69 DELORIMIER AVENUE

MONTREAL, P.Q.

Journal Bearings for Passenger and Freight Service. Wearing Metal Parts for Locomotives.

Miscellaneous Brass Castings for Cars and Locomotives.

Cold Drawn Seamless Boiler Tubes and Superheater Flues

SPRING STEEL -- P. R. R. ANALYSIS

STAYBOLT IRON — LOWMOOR and NETHERTON

Stocks carried for immediate delivery

DRUMMOND, McCALL & COMPANY, Limited

28 VICTORIA SQUARE, MONTREAL

USE

JOYCE JACKS

and you will

RE-JOYCE

The Joyce-Cridland Co.

DAYTON - - OHIO

CAR LIGHTING

COMPLETE EQUIPMENT
ELECTRIC OR GAS

GENERATOR, REGULATOR AND FIXTURES

The Safety Car Heating & Lighting Co.

CHICAGO, BOSTON, PHILADELPHIA, ST. LOUIS
MONTREAL, SAN FRANCISCO

2 RECTOR STREET, NEW YORK, N. Y.

SAFETY EFFICIENCY ECONOMY

Reinforced Brake Shoes

DOMINION BRAKE SHOE CO., Limited

THE HOLDEN CO., LIMITED, Agents

350-356 St. James Street - - Montreal. P.Q.

Canadian Pneumatic Tool Company Ltd.

Manufacturers of Chicago Pneumatic Products

25 & 27 St Antoine Street Montreal.

Boyer Hammers
Little Giant Pneumatic and Electric Drills

Simplate Valve Air Compressors
Giant Oil Engines
C. P. Rock Drills

These products may be obtained through

THE HOLDEN COMPANY LIMITED

Canadian Steel-Tire and Wheel Company, Limited

Locomotive and Car Wheel Tires
Steel Tired Wheels of all Kinds

Works: Montreal East

Office: Transportation Bldg., Montreal

Smiths Falls Malleable Castings Limited

Established 1878 *Two Plants* *Capacity* 8,000 *Tons*

MANUFACTURERS OF

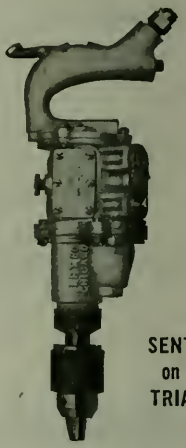
REFINED AIR FURNACE CASTINGS
of High Tensile Strength

Railway Car Castings a Specialty

SMITH S FALLS, ONTARIO, CANADA.

Thor

"Our Baby"



"PIGMY" AIR DRILLS
Capacity up to 1/2 inch
for
TELL - TALE - HOLES
Weight 5 lbs.

SENT on TRIAL.

INDEPENDENT PNEUMATIC TOOL COMPANY

334 St. James St., Montreal.
W. H. Rosevear, Manager.
Branches: Toronto. Winnipeg. Vancouver.

CAMEL COMPANY

332 So. Michigan Avenue, CHICAGO, ILLINOIS

Camel Freight Car Door Fixtures and Repair Parts
Camel Burglar Proof Freight Car Door Locking Arrangement
Camel Freight Car Door Starting Arrangement

THE HOLDEN COMPANY LIMITED
Canadian Agents:
350 ST. JAMES ST. - - - MONTREAL, QUE CANADA

Dougall Railway Varnishes

Steel car Liquid Primer and Paste Surfacer (for both wooden and steel cars). We will gladly send you full particulars of the Dougall 15-day Formula, and 7-day Formula (for hurried work).

You should have the details of these systems handy for reference—*write to-day.*

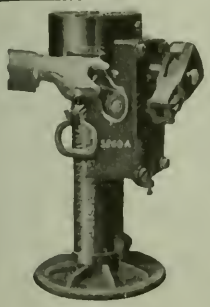
THE DOUGALL VARNISH COMPANY, Limited
MONTREAL.
(ASSOCIATED WITH MURPHY VARNISH CO., U. S. A.)

BARBER
LATERAL MOTION DEVICE AND SIDE BEARINGS

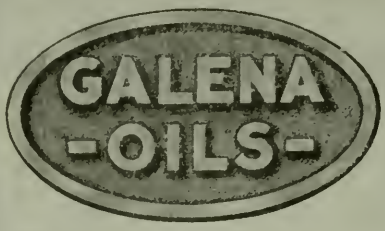
Canadian Office:
708 NEW BIRKS BLDG.,
Montreal

United States Office:
McCORMICK BLDG.,
Chicago, Ill.

STANDARD CAR TRUCK COMPANY



NORTON Self Lowering Jacks
WILL LIGHTEN YOUR LABOR
They are the Fastest and Easiest working Jacks made
SEND FOR COMPLETE CATALOGUE
Made only by A. O. NORTON, Ltd.
COATICOOK, Prov. Quebec
Stock carried by Canadian Agents:
MUSSENS LIMITED
Montreal, Toronto, Winnipeg, Cobalt, Calgary, Vancouver.



Protect and Preserve

Bearings and Motion

Part of Equipment

The uniform high quality of GALENA lubricants assures better protection—longer life to equipment. Only the best grade stocks, treated by Galena special process, can produce the lasting, unbreakable oil film that distinguishes *Galena* from the ordinary refinery products.

"More miles to the pint;
Better service to the mile."

RAILWAY
To R.S.A.
Specification
Catalogue No. 33

LAMPS

MARINE
To B. of T.
Requirements
Catalogue No. 24

THE HIRAM L. PIPER COMPANY, Limited
Montreal, P. Q.

West Disinfecting Co.
Manufacturers of

DISINFECTANTS---LIQUID SOAPS---PAPER TOWELS AND SANITARY APPLIANCES.

301 Casgrain Street, Montreal, P.Q.

MADE IN CANADA

Dearborn

REG. U.S. PAT. OFF.

DEARBORN is a service ; a scientific service, — the correction of boiler feed waters, — based on laboratory analysis and control of conditions and treatment.

It has succeeded because it has maintained constant savings for each railroad using Dearborn Treatment.

If you are not using Dearborn service, write us. We have figures and facts that will interest you.

Dearborn Chemical Company, Limited

2454-2464 Dundas St. West.

TORONTO, CAN.

AGENCY ADDRESSES :

London, S. W. 1, British Columbia House, 3 Regent St.
Johannesburg, S. A., Farrar Building.
Calcutta, India, 12 Mission Row.
Sydney, Australia, 115 Pitt Street.

On the Railways of Canada

SHERWIN-WILLIAMS

Old Dutch

Railway Enamel

(*Oil Elastic*)

has by long use and severest tests proved to be the most efficient, durable and economical finishing material.

Made of the very finest pigments and colors, mixed with oxidized linseed oil, it will retain its elasticity indefinitely because no gums whatever are used in its construction,

Old Dutch Railway Enamel will wear longer than any other finishing varnish or any other kind of enamel and will reduce finishing costs to a minimun.

"Save the surface and you save all" *Paint & Varnish*

Write for full particulars to

THE SHERWIN-WILLIAMS CO.

of Canada, Limited.

PAINT, VARNISH & COLOR MAKERS
LINSEED OIL CRUSHERS
FACTORIES: MONTREAL, TORONTO, WINNIPEG, LONDON, ENG.

CANADIAN CAR & FOUNDRY CO., LIMITED

Passenger, Freight & General Service Cars

Bolsters, Brake Beams, Helical and Elliptic Springs, Etc.

GENERAL OFFICES

307, Craig Street West - - Montreal

CANADIAN STEEL FOUNDRIES, LIMITED

Acid and Basic Open-Hearth Steel and Ferro-Alloy

CASTINGS

RAILWAY TRACKWORK

COUPLERS

ETC.

307, Craig Street West - - Montreal

THE PRATT & LETCHWORTH CO., LIMITED

High Grade

MALLEABLE CASTINGS

307, Craig Street West - - Montreal

Works: BRANTFORD, ONTARIO

MINER

ROLLING ROCKER SIDE BEARING

MANUFACTURED IN CANADA

PROVIDES FREE RADIAL MOVEMENT FOR FREIGHT CAR TRUCKS. REDUCES TRAIN RESISTANCE. PREVENTS DERAILMENTS. SAVES RAILS, WHEELS AND POWER

W. H. MINER

CHICAGO